

AMENDMENTS TO THE CLAIMS

Please add new Claim 21.

A complete listing of all claims is presented below:

1. (Previously Presented) A color-changeable pixel comprising:
a first electrode;
a second electrode substantially parallel to the first electrode, wherein the second electrode is movable towards the first electrode in response to electrostatic attraction between the first electrode and the second electrode;
a separation structure located between the first electrode and the second electrode and extending along a side of the color-changeable pixel; and
a plurality of supports located between the first electrode and the second electrode and inside the color-changeable pixel, wherein a restorability of the second electrode to movement relative to the first electrode is dependent on a distribution density of the supports.
2. (Previously Presented) The color-changeable pixel of claim 1, wherein the plurality of supports comprises a plurality of posts, and the distribution density of the supports is a quantity of the posts per unit area.
3. (Previously Presented) The color-changeable pixel of claim 2, wherein the distribution density is in a range between 225 posts per square millimeter and 2500 posts per square millimeter.
4. (Previously Presented) The color-changeable pixel of claim 2, wherein the distribution density is in a range between 400 posts per square millimeter and 2500 posts per square millimeter.
5. (Original) The color-changeable pixel of claim 1, wherein the supports are grid supports.
6. (Previously Presented) The color-changeable pixel of claim 1, wherein a material of the supports comprises a photosensitive material.
7. (Previously Presented) The color-changeable pixel of claim 6, wherein the material of the supports comprises a photoresist.
8. (Previously Presented) The color-changeable pixel of claim 10, wherein the material of the supports comprises polyester or polyimide.

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9. (Previously Presented) The color-changeable pixel of claim 10, wherein the material of the supports comprises an acrylic resin or an epoxy resin.

10. (Previously Presented) The color-changeable pixel of claim 1, wherein a material of the supports comprises a non-photosensitive material.

11.-16. (Canceled)

17. (Previously Presented) A method of fabricating a color-changeable pixel, the method comprising:

providing a substrate;

providing a first electrode over the substrate;

providing a second electrode over the first electrode, the second electrode substantially parallel to the first electrode, the second electrode is movable relative to the first electrode in response to electrostatic attraction between the first electrode and the second electrode;

providing a separation structure between the first electrode and the second electrode and extending along a side of the color-changeable pixel; and

providing a plurality of supports between the first electrode and the second electrode and inside the color-changeable pixel, wherein the second electrode has a preselected mechanical response in response to the voltage differences, the preselected mechanical response corresponding to a set of mechanical characteristics of the plurality of supports.

18. (Previously Presented) The method of Claim 17, wherein the second electrode comprises a flexible layer.

19. (Previously Presented) The method of Claim 17, wherein the preselected mechanical response comprises a distance moved by the second electrode upon application of the electrostatic attraction between the first electrode and the second electrode.

20. (Previously Presented) The method of Claim 17, wherein the set of mechanical characteristics comprises a distribution density.

21. (New) A method of fabricating a color-changeable pixel, the method comprising:

providing a substrate;

forming a first electrode over the substrate;

forming a sacrificial layer over the first electrode;

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forming openings in the sacrificial layer by etching the sacrificial layer;

filling the openings with a material;

forming a second electrode over the sacrificial layer and the material, the second electrode substantially parallel to the first electrode; and

removing the sacrificial layer, thereby forming a cavity between the first electrode and the second electrode, wherein the second electrode is movable relative to the first electrode in response to electrostatic attraction between the first electrode and the second electrode.